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RAW SEQUENCE LISTING DATE: 05/08/2002 PATENT APPLICATION: US/10/027,400 TIME: 09:15:21

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SEQUENCE LISTING
      3 (1) GENERAL INFORMATION:
             (i) APPLICANT: WILLIAMS, Lewis T.
      6
                            ESCOBEDO, Jaime A.
            (ii) TITLE OF INVENTION: PLATELET-DERIVED GROWTH FACTOR RECEPTORS
      8
     10
           (iii) NUMBER OF SEQUENCES: 14
            (iv) CORRESPONDENCE ADDRESS:
     12
     13
                  (A) ADDRESSEE: Townsend and Townsend and Crew
                  (B) STREET: One Market, Steuart Street Tower, 20th Floor
     14
     15
                  (C) CITY: San Francisco
                  (D) STATE: California
     16
     17
                  (E) COUNTRY: USA
                                                              ENTERED
     18
                  (F) ZIP: 94105
     20
             (V) COMPUTER READABLE FORM:
     21
                  (A) MEDIUM TYPE: Floppy disk
     22
                  (B) COMPUTER: IBM PC compatible
     23
                  (C) OPERATING SYSTEM: PC-DOS/MS-DOS
     24
                  (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
     26
            (vi) CURRENT APPLICATION DATA:
C--> 27
                  (A) APPLICATION NUMBER: US/10/027,400
C--> 28
                  (B) FILING DATE: 19-Dec-2001
     29
                  (C) CLASSIFICATION:
     35
           (vii) PRIOR APPLICATION DATA:
     32
                  (A) APPLICATION NUMBER: US/08/461,917
     33
                  (B) FILING DATE: 05-JUN-1995
     36
                  (A) APPLICATION NUMBER: US 07/151,414
     37
                  (B) FILING DATE: 02-FEB-1988
     39
          (viii) ATTORNEY/AGENT INFORMATION:
     40
                  (A) NAME: Dow, Karen B.
                  (B) REGISTRATION NUMBER: 29,684
     41
                  (C) REFERENCE/DOCKET NUMBER: 2307K-267-2-4
     42
     44
            (ix) TELECOMMUNICATION INFORMATION:
     45
                  (A) TELEPHONE: 415/326-2400
                  (B) TELEFAX: 415/326-2422
     46
     49 (2) INFORMATION FOR SEQ ID NO: 1:
     51
             (i) SEQUENCE CHARACTERISTICS:
     52
                  (A) LENGTH: 6373 base pairs
     53
                  (B) TYPE: nucleic acid
     54
                  (C) STRANDEDNESS: single
     55
                  (D) TOPOLOGY: linear
     57
            (ii) MOLECULE TYPE: cDNA
     60
            (ix) FEATURE:
     61
                  (A) NAME/KEY: CDS
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PATENT APPLICATION: US/10/027,400

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62 65		/vi	(E SEC	3) LC						ים אור	· 1 ·						
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																GTTT	
																CTT	170
72	CONC	AGC.														Leu	1,0
73			1100	-	1111	501	5		, ,,,,,,,,		. 100	10		. 017	0,1	Lou	
	ርሞሮ	λ (λ	GGG		AGC	СФД	_		ጥርር	CAG	СФФ			כככ	ጥርጥ	Δጥር	218
			Gly														210
77	15		011	D C u	001	20	110	Lou	0,0	01	25	001	Lou		502	30	
		CCA	AAT	CAA	ΨΑΑ		DAG	CTT	GTG	CAG	_	таа	тса	TCC	փփփ		266
			Asn														
81	Lou			014	35					40					45		
	CTG	AGA	TGC	ጥጥጥ		GAG	AGT	GAA	GTG		TGG	CAG	TAC	CCC		TCT	314
			Cys														
85		,	-1-	50	1				55					60		-	
	GAA	GAA	GAG		TCC	GAT	GTG	GAA	ATC	AGA	AAT	GAA	GAA	AAC	AAC	AGC	362
			Glu														
89			65					70		,			75				
91	GGC	CTT	TTT	GTG	ACG	GTC	TTG	GAA	GTG	AGC	AGT	GCC	TCG	GCG	GCC	CAC	410
			Phe														
93	•	80					85					90					
95	ACA	GGG	TTG	TAC	ACT	TGC	TAT	TAC	AAC	CAC	ACT	CAG	ACA	GAA	GAG	AAT	458
96	Thr	Gly	Leu	Tyr	Thr	Cys	Tyr	Tyr	Asn	His	Thr	Gln	Thr	Glu	Glu	Asn	
97	95	-		-		100	-	-			105					110	
99	GAG	CTT	GAA	GGC	AGG	CAC	ATT	TAC	ATC	TAT	GTG	CCA	GAC	CCA	GAT	GTA	506
100	Glu	Let	ı Glu	ı Gly	Arg	His	Ile	Туг	· Ile	Туг	. Val	Pro	Asp	Pro	Asp	val	
101					115					120					125		
103	GCC	TT	r GTA	CCI	CTA	GGA	ATG	ACG	GAT	LAT '	TTA	GTC	ATC	GTG	GAG	GAT	554
104	Ala	Phe	e Val	Pro	Leu	Gly	Met	Thr	Asp	Туг	Leu	. Val	. Ile	val	L Glu	Asp	
105	5			130	l				135	;				140)		
107	' GAI	'GA	r TCI	GCC	TTA	ATA	CCI	TGI	CGC	ACA	ACT	' GAI	, ccc	GAG	ACI	CCT	602
108	Asp	Asp	ser Ser	: Ala	Ile	Il∈	Pro	Cys	Arg	Thr	Thr	Asp	Pro	Glu	ı Thr	Pro	
109)		145	5				150)				155	5			
111	. GTA	ACC	C TTA	CAC	AAC	AGI	GAG	GGG	GTG	GTA	CCI	GCC	TCC	TAC	GAC	AGC	650
112	? Val	Th	r Leu	ı His	Asn	Ser	Glu	Gly	Val	. Val	. Pro	Ala	Ser	Туг	: Asp	ser	
113		160					165					170					
																GAG	698
116	Arg	Gl	ı Gly	y Phe	Asn	Gly	Thr	Phe	Thr	Val	. Gly	Pro	Tyr	: Ile	e Cys	Glu	
	175					180					185					190	
																TAT	746
		Thi	c Val	. Lys			Lys	Phe	Gln			Pro	Phe	Asn		Tyr	
121					195					200					205		
																' AAA	794
		Let	ı Lys			Ser	Glu	Leu	_		ı Glu	Met	Glu			Lys	
125				210					215			=		220			
																TTT	842
		· Val	_		Ser	Gly	Glu			. Val	. Val	Thr			a Val	Phe	
129)		225	•				230					235)			

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												CCT					890
132	Asn		Glu	Val	Val	Asp		Gln	Trp	Thr	Tyr	Pro	Gly	Glu	Val	Lys	
133		240					245					250					
												GTC					938
	-	Lys	Gly	Ile	Thr		Leu	Glu	Glu	Ile	-	۷al	Pro	Ser	Ile	-	
	255					260					265					270	
												GTG					986
140	Leu	Val	Tyr	Thr	Leu	Thr	Val	Pro	Glu	Ala	Thr	Val	Lys	Asp	Ser	Gly	
141					275					280					285		
												GAG					1034
	Asp	Tyr	Glu	_	Ala	Ala	Arg	Gln		Thr	Arg	Glu	Val	_	Glu	Met	
145				290					295					300			
												TTC					1082
	Lys	Lys		Thr	Ile	Ser	Val		Glu	Lys	Gly	Phe		Glu	Ile	Lys	
149			305					310					315				
												CAT					1130
152	Pro		Phe	Ser	Gln	Leu		Ala	Val	Asn	Leu	His	Glu	Val	Lys	His	
153		320					325					330					
												AGG					1178
		Val	Val	Glu	Val		Ala	Tyr	Pro	Pro		Arg	Ile	Ser	Trp		
	335					340					345					350	
												GAG					1226
	Lys	Asn	Asn	Leu		Leu	Ile	Glu	Asn		Thr	Glu	Ile	Thr		Asp	
161					355					360					365		
												AAA					1274
	Val	Glu	Lys		GIn	Glu	Ile	Arg		Arg	Ser	Lys	Leu		Leu	IIe	
165				370					375					380			1200
												ATT					1322
	Arg	Ala	_	Glu	Glu	Asp	ser	_	Hls	Tyr	Thr	Ile		Ala	GIn	Asn	
169			385					390					395	~ .			1270
												TTA					1370
	GIU		Ala	vaı	гуѕ	ser	_	Thr	Pne	GIU	Leu	Leu	rnr	Gin	vaı	Pro	
173	max.	400	3 /DM	ama.	C A C	mmc	405	C A M	C A M	a. a	73 III	410	max.	3 CIM	ccc	CCA	1410
												GGC					1418
		ser	TTE	ьец	Asp		vaı	Asp	Asp	нтв		Gly	Ser	THI	GIY	430	
	415	3.00	стс	3.00	mca	420	com	C 3 3	cca	3.00	425	CTT	COM	СУШ	» mm		1466
																	1400
181	GIII	THE	val	Arg	435	TIII	Ата	GIU	GIY	440	PIO	Leu	PIO	ASP	445	GIU	
	mcc	አ መረገ	אוווא	mcc		CAM	א נווייות ע	አአር	7.7.7		א א חיי	AAT	C A A	х СШ		TICC	1514
												Asn					1314
185	пр	Met	TIE	450	гуѕ	ASP	TIE	цуѕ	дуS 455	Cys	ASII	ASII	GIU	460	ser	ттр	
	λСШ	አ መጥ	መሞር	-	አአሮ	א א יחי	CTC	መሮአ		እ ጥር	እ ጥ ር	ACG	GAG		CAC	TCC	1562
																	1302
189	T 111	116	465	HIG	noii	nsii	AGT	470	UDII	116	116	Thr	475	116	1112	261	
	CCA	CAC		አ C m	A C C	CTIC	GNG		CCT	GTIC	አረጣ	TTC		א א א	CTIC:	GAG	1610
												Phe					1010
193	AT 9	480	AT A	961	T11T	Val	485	GIY	лту	va⊥	TIIT	490	лта	wys	* a.L	G_u	
	CAG		አ ምሮ	GCC	GTG	CGA		CTIC	ഭഗ്ന	ΔΔα	ייעע	CTC	سست	GC A	േന	GAG	1658
エンン	GNG	ACC	AIC	300	GIG	CGM	190	CIG	301	nau	UUT		\sim $_{\perp}$ $_{\perp}$	JUA	901	GAG	1000

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196	Glu	Thr	Ile	Ala	Val	Arg	Cys	Leu	Ala	Lys	Asn	Leu	Leu	Gly	Ala	Glu	
197	495					500					505					510	
199	AAC	CGA	GAG	CTG	AAG	CTG	GTG	GCT	CCC	ACC	CTG	CGT	TCT	GAA	CTC	ACG	1706
200	Asn	Arg	Glu	Leu	Lys	Leu	Val	Ala	Pro	Thr	Leu	Arg	Ser	Glu	Leu	Thr	
201					515					520					525		
203	GTG	GCT	GCT	GCA	GTC	CTG	GTG	CTG	TTG	GTG	ATT	GTG	ATC	ATC	TCA	CTT	1754
204	Val	Ala	Ala	Ala	Val	Leu	Val	Leu	Leu	Val	Ile	Val	Ile	Ile	Ser	Leu	
205				530					535					540			
	ATT	GTC	CTG	GTT	GTC	ATT	TGG	AAA	CAG	AAA	CCG	AGG	TAT	GAA	ATT	CGC	1802
					Va1												
209			545					550		-2			555			- 2	
	TGG	AGG		ÄΤΤ	GAA	TCA	АТС		CCA	GAT	GGA	CAT	GAA	TAT	ATT	TAT	1850
					Glu												
213		560	,		0_0		565			P.F	0	570		-1-		-2-	
	CTC		CCG	ΔТС	CAG	СТС		тΔт	GAC	тСΔ	ΔGA		GAG	արդու	CCA	AGA	1898
					Gln												2030
	575	пор	110	Hec	GIII	580	110	- Y -	изъ	JCI	585	115	Olu	1110	110	590	
		CCN	CILIX	CTC	CTT		CCC	CTC	ששכ	CCC	-	CCA	CCC	աաա	ccc		1946
																	1740
	мър	GIY	ьец	val	Leu 595	GIY	AIG	Val	пеп	600	261	GIY	нца	FILE	605	пуъ	
221	cmc	cmm	~~~	CCA	ACA	caa	mam	CCA	шшх		acc	maa	C2 2	ССП		х шС	1994
																	1994
	val	vai	GIU	.	Thr	Ald	TYL	GIY		ser	Arg	Ser	GIII		Val	Met	
225		c mm	003	610	336	3 m/c	CITI 3	* * *	615	100	caa	3.03	maa	620	C 3 3	222	2042
					AAG												2042
	га	vaı		vaı	Lys	мет	Leu		Pro	rnr	Ala	Arg		ser	GIU	гÀг	
229	~		625					630		3.50		~ 3 ~	635	000	G G 3	G3 M	2000
					TCT												2090
	GIN		ьeu	мет	Ser	GIU		гĀг	TTE	met	THE		ьeu	GIY	Pro	HIS	
233	mma	640	3 mm	am.		mmc	645	663	000	maa	3.00	650	moa.	000	000	3 MM	2120
					AAC												2138
		Asn	TTE	vaı	Asn		Leu	GIY	Ата	Cys		гàг	ser	GIY	Pro		
	655					660					665					670	2100
					GAG												2186
	Tyr	He	He	Thr	Glu	Tyr	Cys	Phe	Tyr	-	Asp	Leu	Val	Asn	_	Leu	
241					675					680					685		
					GAT												2234
	His	Lys	Asn	-	Asp	Ser	Phe	Leu		His	His	Pro	GLu		Pro	Lys	
245				690		•			695					700			
					ATC												2282
	Lys	Glu		Asp	Ile	Phe	Gly		Asn	Pro	Ala	Asp		Ser	Thr	Arg	
249			705					710					715				
					TTA												2330
252	Ser	Tyr	Val	Ile	Leu	Ser	Phe	Glu	Asn	Asn	Gly	Asp	\mathtt{Tyr}	Met	Asp	Met	
253		720					725					730					
					ACT												2378
	_	Gln	Ala	Asp	Thr		Gln	Tyr	Val	Pro	Met	Leu	Glu	Arg	Lys		
	735					740					74 5					750	
					TCC												2426
260	Val	Ser	Lys	\mathtt{Tyr}	Ser	Asp	Ile	Gln	Arg	Ser	Leu	\mathtt{Tyr}	Asp	Arg	Pro	Ala	



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261					755					760					765			
263	TCA	TAT	AAG	AAG	AAA	TCT	ATG	тта	GAC			GTC	ΔΔΔ	λλα	703	CTT		2474
264	Ser	Tyr	Lys	Lys	Lys	Ser	Met	Leu	Asp	Ser	Glu	Val	Lve	λen	Leu	Leu		24/4
265		_	_	770					775				270	780	шец	шец		
267	TCA	GAT	GAT	AAC	TCA	GAA	GGC	CTT	ACT	TTA	TTG	GAT	TTG		AGC	TTC		2522
268	Ser	Asp	Asp	Asn	Ser	Glu	Gly	Leu	Thr	Leu	Leu	Asp	Leu	Leu	Ser	Phe		2022
269			785					790					795					
271	ACC	TAT	CAA	GTT	GCC	CGA	GGA	ATG	GAG	TTT	TTG	GCT	TCA	AAA	AAT	TGT		2570
272	Thr	\mathtt{Tyr}	Gln	Val	Ala	Arg	Gly	Met	Glu	Phe	Leu	Ala	Ser	Lys	Asn	Cys		
273		800					805					810				_		
275	GTC	CAC	CGT	GAT	CTG	GCT	GCT	CGC	AAC	GTT	CTC	CTG	GCA	CAA	GGA	AAA		2618
		His	Arg	Asp	Leu	Ala	Ala	Arg	Asn	Val	Leu	Leu	Ala	Gln	Gly	Lys		
	815					820					825					830		
279	ATT	GTG	AAG	ATC	TGT	GAC	TTT	GGC	CTG	GCC	AGA	GAC	ATC	ATG	CAT	GAT		2666
280	Ile	Val	Lys	Ile	Cys	Asp	Phe	Gly	Leu	Ala	Arg	Asp	Ile	Met	His	Asp		
281	maa				835					840					845			
283	TCG	AAC	TAT	GTG	TCG	AAA -	GGC	AGT	ACC	TTT	CTG	CCC	GTG	AAG	TGG	ATG		2714
204	ser	Asn	Tyr		Ser	Lys	Gly	Ser		Phe	Leu	Pro	Val		Trp	Met		
285	CCM	COM	CAC	850	3.00	mmm	a		855					860				
207	Ala	Dro	Clu	AGC	ATC	TTT	GAC	AAC	CTC	TAC	ACC	ACA	CTG	AGT	GAT	GTC		2762
289	Ala	PIO	865	ser	Ile	Pne	Asp		Leu	Tyr	Thr	Thr		Ser	Asp	Val		
	TICC	m/cm	_	ccc	a mm	CITIC	с тс	870	a. a				875					
291	Trn	Ser	TAI	C1++	ATT	CTG	CTC	TGG	GAG	ATC	TTT	TCC	CTT	GGT	GGC	ACC		2810
293	115	880	TAT	GIY	Ile	ьeu	885	Trp	GIU	тте			Leu	GIY	GIY	Thr		
	ССТ		CCC	GGC	ATG	አጥር		CMT	m/cm	х ст		890	3.300		3.00			
296	Pro	Tvr	Pro	Glv	Met	Met	U a l	JCD	Cor	Mb~	Dho	TAC	AAT	AAG	ATC	AAG		2858
	895	-1-		011	1100	900	vai	изъ	261	T 111T	905	TÄT	ASII	гуу	тте	ьуs 910		
		GGG	TAC	CGG	ATG		AAG	ССФ	GAC	CAC		A CC	λ C.T.	CAA	CITIC			2006
300	Ser	Gly	Tyr	Arq	Met	Ala	Lvs	Pro	Asp	His	Δla	Thr	Ser	Glu	Val	TAC		2906
301		-	-	3	915		1-			920	mu	1111	OCI	GIU	925	TYL		•
303	GAG	ATC	ATG	GTG	AAA	TGC	TGG	AAC	AGT		CCG	GAG	AAG	AGA		TCC		2954
304	Glu	Ile	Met	Val	Lys	Cys	Trp	Asn	Ser	Glu	Pro	Glu	Lvs	Ara	Pro	Ser	•	2334
305				930		_	-		935				-1-	940		501		
307	TTT	TAC	CAC	CTG	AGT	GAG	ATT	GTG	GAG	AAT	CTG	CTG	CCT	GGA	CAA	TAT	:	3002
308	Phe	Tyr	His	Leu	Ser	Glu	Ile	Val	Glu	Asn	Leu	Leu	Pro	Gly	Gln	Tyr		
309			945					950					955			_		
311	AAA	AAG	AGT	TAT	GAA	AAA	ATT	CAC	CTG	GAC	TTC	CTG	AAG	AGT	GAC	CAT		3050
312	Lys		Ser	Tyr	Glu	Lys	Ile	His	Leu	Asp	Phe	Leu	Lys	Ser	Asp	His		
313		960										970						
315	CCT	GCT	GTG	GCA	CGC	ATG	CGT	GTG	GAC	TCA	GAC	AAT	GCA	TAC	ATT	GGT	3	3098
316	Pro	Ala	Val	Ala	Arg		Arg	Val	Asp	Ser	Asp	Asn	Ala	Tyr	Ile	Gly		
317						980					985					990		
377 373	GTC	ACC	TAC	AAA	AAC	GAG	GAA	GAC	AAG	CTG	AAG	GAC	TGG	GAG	GGT	GGT	3	3146
3∡U 331	val	rnr	туг	гаг	Asn	GLu	GLu	Asp	Lys			Asp	Trp	Glu				
321	CTTC	C A M	CAC	03.0	995	ama.				1000					1005	;		
321	LOU	GAT λer	Cl	CAG	AGA	CTG	AGC	GCT	GAC	AGT	GGC	TAC	ATC	ATT	CCT	CTG	3	3194
325	ьeu	usb	GIU	1010	Arg	ьeu	ser	Ата			GТĀ	Tyr	Ile			Leu		
223				1010	,				1015					1020				

VERIFICATION SUMMARY

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Input Set : N:\Crf3\RULE60\10027400.raw
Output Set: N:\CRF3\05082002\J027400.raw

L:870 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3 L:874 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3 L:878 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3 L:882 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3

L:1493 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=14



A DOCPHOENIX

APPL PARTS	NPL	CTNF
THE SAUST CHANGE OF SAUST AND A	Non-Patent Literature	Count Non-Final
IMIS Internal Misc. Paper	OATH Oath or Declaration	CTRS
LET	PET.	EXIN
Misc. Incoming Letter	Petition	Examiner Interview
371P	RETMAIL	M903
PCT Papers in a 371Application	Mail Returned by USPS	DO/EO Acceptance
A Elections	SEQLIST	M905
	Sequence Listing	DO/EO Missing Requirement
Abstract ABST	Specification SPEC	NFDR
ADS	SPEC NO	Formal Drawing Required
Application Data Sheet	Specification Not in English	NOA Notice of Allowance
AF/D	TRNA	PETDEC
Affidavit or Exhibit Received	Transmittal New Application	Petition Decision
APPENDIX		
Appendix		
ARTIFACT	OUTGOING	INCOMING
BIB	CTMS	4 D. D.
Bib Data Sheet	Misc. Office Action	Appeal Brief
CLM	1449	C.AD
Claim	Signed 1449	Change of Address
COMPUTER	892 _	N/AP
Computer Program Listing	892	Notice of Appeal
CRFL	ABN	PA
All CRF Papers for Backfile	Abandonment	Change in Power of Attorney
DIST Terminal Disclaimer Filed	APDEC	REM
	Board of Appeals Decision	Applicant Remarks in Amendment
Drawings DRW	APEA	XT/ Extension of Time filed separate
FOR	CTAV	Extension of Time filed Separate
Foreign Reference	Count Advisory Action	
FRPR	CTEQ	
Foreign Priority Papers	Count Ex parte Quayle	
IDS	CTFR	File Wrapper
IDS Including 1449	Count Final Rejection	
Internal	ECBOX	FWCLM
	Evidence Copy Box Identification	File Wrapper Claim
SRNTExaminer Search Notes	WCLM	IIFW
CLMPTO	WFEE	File Wrapper Issue Information
PTO Prepared Complete Claim Set	Fee Worksheet	SRFW

File Wrapper Search Info